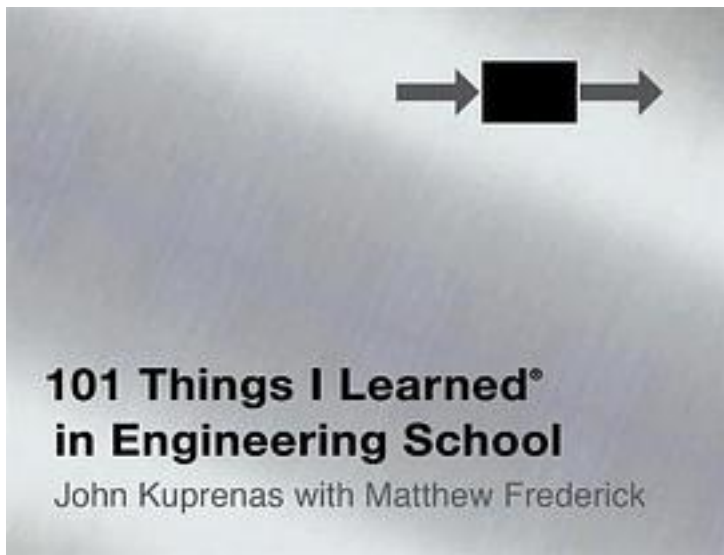


101 Things I Learned in Engineering School



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出版者:Grand Central Publishing

出版时间:2013-5-30

装帧:Hardcover

isbn:9781455509775

In this unique primer, an experienced civil engineer and instructor presents the physics and fundamentals that underlie the many fields of engineering. Far from a dry, nuts-and-bolts exposition, however, 101 THINGS I LEARNED® IN ENGINEERING SCHOOL probes real-world examples to show how the engineer's way of thinking can-and sometimes cannot-inform our understanding of how things work. Questions from the simple to the profound are illuminated throughout: Why shouldn't soldiers march across a bridge? Why do buildings want to float and cars want to fly? What is the difference between thinking systemically and thinking systematically? How can engineering solutions sympathize with the natural environment?

Presented in the familiar, illustrated format of the popular 101 THINGS I LEARNED® series, 101 THINGS I LEARNED® IN ENGINEERING SCHOOL offers an informative resource for students, general readers, and even experienced engineers, who will discover within many provocative new insights into familiar principles.

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标签

设计

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评论

Four material characteristics: stiffness/elasticity , strength , ductility/ brittleness, toughness. “ Softer materials aren’ t always more protective.” “Accuracy and precision are different things.” “Accuracy is the absence of error; precision is the level of detail.” “Concrete and cement are different things.”

车一直是想起飞的。

A very interesting and short read. I’ m sure I will forget lots of points listed in this book, but some of which did make me reflect on the subtle relationships in my field.
“Random hypothesis #1: You don’ t fully understand something until you quantify it.

But you understand nothing at all if all you do is quantify.”

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书评

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